

AMENDMENT

In the Claims

Please amend the claims as follows:

1. (currently amended) A communications system for communicating a packets ~~message~~ comprising data content in a cellular mobile radiotelephone (CMR) system, comprising:

a plurality of wireless data transport (WDT) transceivers, each capable of supporting wireless data communications in with the CMR system, providing by a plurality of WDTs, each WDT transceiver coupled to an antenna and operable to communicate one of the ~~message~~ packets with any one of the WDTs via the antenna;

B1 a controller operative to identify each of the WDTs operational within the CMR system for transporting the packet ~~message~~ and to select one of the WDT transceivers corresponding to one of the identified WDTs for communicating the packet ~~message~~ in response to analyzing characteristics of the data content ~~of the message~~ based upon a plurality of weighted selection criteria;

a user interface, coupled to the controller, operative to provide a unified interface to the WDT transceivers; and

a normalization function, coupled to each WDT transceiver and to the controller, operative to transform the packet ~~message~~ into a format acceptable for processing by the selected WDT transceiver,

wherein the communications system can communicate different packets ~~messages~~ using different ones of the WDTs available within an operating environment by completing an analysis of the data content ~~of each of the messages~~ on a dynamic, real time basis.

2. (currently amended) The communications system of Claim 1, further comprising a memory, coupled to the controller, for storing the data content ~~of the message~~ to be communicated by the selected WDT transceiver.

3. (currently amended) The communications system of Claim 1, wherein the plurality of WDT transceivers are aggregated to form a transceiver system implemented as a single monolithic component.

4. (currently amended) The communications system of Claim 1, wherein the plurality of WDTs comprise overhead control channel, Short Message Service (SMS), Cellular Digital Packet Data (CDPD), and voice-channel modem transports.

5. (Cancelled)

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6. (currently amended) The communications system of Claim 1, wherein the controller identifies one of the WDTs for transporting the packet message by identifying each available WDT in ~~an~~ the operating environment and ~~choosing~~ selects one of the WDT transceivers corresponding to ~~associated with~~ the identified WDTs to communicate the packet message based upon ~~the~~ a volume of the data content of the packet message.

7. (currently amended) The communications system of Claim 1, wherein the controller identifies one of the WDTs for transporting the packet message by identifying each available WDT in ~~an~~ the operating environment and ~~choosing~~ selects one of the WDT transceivers ~~associated with~~ corresponding to the identified WDTs to communicate the packet message based upon ~~the~~ a cost of communicating the packet message communication.

8. (currently amended) The communications system of Claim 1, wherein the controller identifies one of the WDTs ~~for transporting the message~~ transceivers corresponding to one of the identified WDTs on a packet message-by-message basis.

9. (currently amended) A computer-implemented process for communicating ~~a message comprising~~ data content in a cellular mobileradiotelephone (CMR) system, comprising the steps:

identifying ~~each~~ a plurality of available wireless data transports (WDTs) in an operating environment of the CMR system ~~by monitoring the operating environment;~~

selecting WDTs on a packet-by-packet basis from the ~~one~~ identified WDTs to support a ~~the~~ communication of the data content based upon a characteristic of the data content ~~message by analyzing the data content of the message in view of predetermined selection criteria applied on a message by message basis to determine the most appropriate WDT for message communication;~~ and

31 communicating the data content message with the selected WDTs in the CMR system according to the packet-by-packet selection of WDTs.

10. (cancelled)

11. (currently amended) The computer-implemented process of Claim 9, wherein the characteristic of the data content comprises a step of selecting the identified wireless data transport ~~comprises selecting one of the identified WDTs based upon the volume of the data content of the message.~~

12. (currently amended) The computer-implemented process of Claim 9, wherein the step of selecting WDTs ~~the identified wireless data transport~~ comprises selecting WDTs on a packet-by-packet basis from ~~one of the identified WDTs based upon a~~ the cost of communicating each packet conveying the message in the CMR system.

13. (currently amended) The computer-implemented process of Claim 9, wherein the step of selecting WDTs on a packet-by-packet basis ~~the identified wireless data transport~~ comprises selecting ~~one of~~ WDTs from the identified WDTs based upon a ~~the~~ priority assigned to the communication of each packet ~~the message~~ by the CMR system.

B | 14. (currently amended) The computer-implemented process of Claim 9, wherein the CMR system supports ~~the operations of~~ a plurality of wireless data transports comprising overhead control channel, Short Message Service (SMS), Cellular Digital Packet Data (CDPD), and voice-channel modem transports.

15. (original) A computer-readable medium comprising instructions for completing the steps of Claim 9.

16. (currently amended) A memory storage device comprising computer-executable instructions for communicating a message comprising data content in a cellular mobileradiotelephone (CMR) system, comprising:

identifying ~~each~~ wireless data transports in an operating environment of the CMR system in response to monitoring the operating environment;

selecting ~~one~~ wireless data transports from the identified wireless data transport to support ~~the communication of~~ communicating the message based ~~only~~ upon an analysis of ~~the~~ a volume of the data content on a packet-by-packet ~~message-by-message~~ basis, wherein each selected wireless data transport is assigned to support communicating ~~the communication of~~ ~~messages comprising~~ a different predetermined range of data content volume; and

communicating the message with the selected wireless data transports in the CMR system on a packet-by-packet basis.

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17. (currently amended) The memory storage device of Claim 16, wherein the CMR system supports ~~the operations of~~ a plurality of wireless data transports comprising overhead control channel, Short Message Service (SMS), Cellular Digital Packet Data (CDPD), and voice-channel modem transports.

18. (currently amended) The memory storage device of Claim 16, wherein the volume of the data content is small and the step of selecting the identified wireless data transports comprises choosing an overhead control channel transport.

19. (currently amended) The memory storage device of Claim 16, wherein the volume of the data content is medium and the step of selecting the identified wireless data transports comprises choosing a Short Message Service (SMS) transport.

20. (currently amended) The memory storage device of Claim 16, wherein the volume of the data content is large and the step of selecting the identified wireless data transports comprises choosing a Cellular Consumer-Digital Packet Protocol Data (CDPD) transport.

21. (currently amended) The memory storage device of Claim 16, wherein the volume of the data content is very large and the step of selecting the identified wireless data transports comprises choosing a voice-channel modem transport.

22. (currently amended) A memory storage device comprising computer-executable instructions for communicating a message comprising data content in a cellular mobileradiotelephone (CMR) system, comprising:

identifying each wireless data transport in an operating environment of the CMR system in response to monitoring the operating environment;

selecting one identified wireless data transport as a preferred transport medium to support the communication of the message based upon an analysis of the volume of the data content, wherein each wireless data transport is assigned to support the communication of messages comprising a different predetermined range of data content volume;

B1 selecting one identified wireless data transport to support the communication of the message based upon a weighted combination of alternative selection criteria other than data content volume, the alternative selection criteria comprising at least one of time of day for the message communication, location of a recipient of the message communication, cost of the message communication, expected latency of the message communication, and priority status of the message communication;

if the wireless data transport selected as the preferred transport medium is the wireless data transport selected based upon the alternative selection criteria,

then communicating the message with the preferred transport medium in the CMR system,

otherwise, communicating the message with the wireless data transport selected based upon the alternative selection criteria.

23. (currently amended) A system for communicating a message comprising data content in a cellular mobile radiotelephone (CMR) system, comprising:

a plurality of wireless data transport (WDT) transceivers, each capable of supporting wireless data communications with the CMR system, providing ~~by~~ a plurality of WDTs, each WDT transceiver coupled to an antenna and operable to communicate the message with ~~any~~ one of the WDTs via the antenna;

a controller operative to identify each of the WDTs operational within the CMR system for transporting the message and to select one of the WDT transceivers corresponding to one of the identified WDTs for communicating the message using a selection algorithm based on a heuristic process to support a learning capability based upon prior communication operations ~~based upon selection criteria applied to the data content of the message;~~

a user interface, coupled to the controller, operative to provide a unified interface to the WDT transceivers; and

a normalization function, coupled to each WDT transceiver and to the controller, operative to transform the message into a format acceptable for transmission by the selected WDT transceiver and to transform the data content received by the selected WDT transceiver for presentation via the user interface, said normalization function comprising a plurality of transformation processes to support the operation of the plurality of WDT transceivers.

24. (currently amended) The system of Claim 23, wherein the selection algorithm applies selection criteria, comprising at least one of data content volume and priority status of the data content, to the message.

25. (currently amended) The system of Claim 23, wherein the controller is further operable to select the one of the WDT transceivers based upon a selection criterion applied to the data content of the message ~~uses a selection algorithm to select the WDT transceiver, the selection algorithm based on a heuristic process having a learning capability for prior message communication operations.~~



26. (currently amended) A system for communicating a message comprising data content in a cellular mobile radiotelephone (CMR) system, comprising:

a plurality of wireless data transport (WDT) transceivers, each capable of supporting wireless data communications with the CMR system, providing by a plurality of WDTs, each WDT transceiver coupled to an antenna and operable to communicate the message with ~~any~~ one of the WDTs via the antenna;

a controller operative to identify each of the WDTs operational within the CMR system for transporting the message and to select one of the WDT transceivers corresponding to one of the identified WDTs for communicating the message in response to analyzing characteristics of the data content of the message based upon a weighted combination of selection criteria;

B) a user interface, coupled to the controller, operative to provide a unified interface to the WDT transceivers;

a normalization function, coupled to each WDT transceiver and to the controller, operative to transform the message into a format acceptable for processing by the selected WDT transceiver; and

a memory, coupled to the controller, for storing firmware which comprises instructions for execution by the controller to enable communication by the transceiver and for storing data comprising the identity of each WDT supported by an operating environment.

27. (previously presented) The system of claim 26, wherein the memory stores data input by a user via the user interface for transmission by the selected WDT transceiver.

28. (previously presented) The system of claim 26, wherein the memory stores an instruction set executable by the controller and normalization data for use by the normalization function.

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